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Passed March 28th 1826

Heat, a cause of bilious disordors.

By

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of

Virginia.

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Heat, a cause of bilious disorders.

No fact in medicine seems to be better established, than that march offluria are the cause of bilious remittent fover: get this and other bilious disorders occur in nume. rous instances, where, from the absence of sources of miasmatic exhalations, we are induced to attribute them to other causes. Thus, when we within their prevalence in an elevaled and dry district of country, free from pools and marthes, we cannot fairly refer them to the agency of this silent and invisible pe; as it seems to be determined that exhalations cannot be wafter to a great distance, without being so deluter or dishipato as to render them innoxious. If, in these circumstances, long continued augmentation of heat has prevailed, our attention is insistilly drawn to that agent as the pro-

. bable cause .

It is not designed to take it for granted that heat is certainly a cause of these diseases: but it will be proved that they have presaid where it was the apparent and prebable cause; and, next, on attempt will be made to explain the mede of its operation.

Verhaps it may not be amily to state, that the cause of believe forer, several years before he had the souther solispeture of knowing that destrine was taught in the University of Permisylvanias.

In the country of Carolina, Virginia, there is a considerable hast of country, commediately to the west of the good mail nach bound of the news Margony as the news Margony as the thousand, to the laws of year viron, which, during the last and dry summer of 1822 and aspecially 1825, was visited by a prevalence and

Luy when who an elen enamina is to of the trusk this to belief, the En from the Lonequent malignity of believe diseased, imprincipated in the memory of the eldert inhabitants. It has been always esterned a healthy country. The surface is undulation or healty, and clearly. The soil is as selections, that the inhabitant find much difficulty in presenting earth sufficiently clayed to make good briefs. Head how presting the make good briefs. Head there protests of the surface are cleared of cools and marriage a half of that without marriang is the secondary from, a good to which induced to that the such said one known the openanteer of the please. Soo mall steams population of the please. So mall steams population that the state, with little low grounds on their levels.

Several strong circumstances interdict the belief, that believe disorders arose, in this situation, from the agency of mismatic.

In the jost place, the country is alvation and, consequently, enjoys a contitation, which would work away or identical any portial emanation that

haptim it of word; the seconda att very is might wise.

2 dly The surface is undulating or hely, couring a speady papage to streams and redundant water from rains, thinky premiting the formation of marker and stagnant peels.

3 by The sandy soil is preverable to the absorption of superabundant water from its prems natures and from the same cases, guild it, when operated on by the winds and raps of the sun, more readily than a soil of a different character; and therefore, seen becomes day, Besides, where it is the formed with the material greath, we cannot suspect it of group both to that whethere which arise from anythere we would not a

4/g About three purths of the had are closed by week and marly a half of the remaining is the secondary pine, a greath which defends the walk very imporpelly from the action of the sun and winds, and where leaves wrist decay for years

I officers, rich to thomas in consequence of their revenue proporties, and are throughour interesty to give not offenever waththe time. The annual proportion of closed grown in this distinct of country, is very to a well known circumstance in the early history of livener, which it may not be irrelative to mention here. It affects, that, nearly a century since the society of three collects the structurents, was in the granted by the hands admend; and that the lands watered by the hands

of Goods never, predicate it in the qualist projections. The consequence was, this country was estiminate by the patients to the plough, and menty colonists by the aprilume cultivation of the plant. I gother with the claring, which permits the would to fan the country, which permits the would to fan the country which would affect to find the country of registrate matter, which would affect to make the most to sure the which which will affect of mission, so for as the generation depends on a grepout in the composition of the soil.

that 10 nduce the las but a s before in epidem cause of On receiving the circumstances of this section of landing, not one will be found to support the idea, that the openions of 1822 and 1825 originated in miname, unlight the two small electrons be considered its source, or that it was consequed by the winds from a dictance.

The justice of such a container is moderned highly improbable by serval fact. The back allowed to is ten or twibe miles agran, and the ten grands on the streams is narrow, that far proportion find it their indust to reque them to cultivation. Is far as the law which grown missimate have been stellements, that tenthe can be concepted but a short distance from the source of columbiation, before it is readered in openious.

What then was the cause of these experiences? and in what manner did this cause spoonts?

and operate to operation test the a kut, and myhoret That the name were unutually warm, is a will known part. That heat is a general of power of the human system, is also a way part well intellight. That more of there each a labour, which have admanly been supposed to produce believe duesnes, could in this heart of country, has been sufficiently shown. Must then remain, has been sufficiently shown. That there remains that the conserver, a combine to which there parts investely lead up. Must be about the parts investely lead up. This construction and the cause. The justing of this construction will further appear, after we shall have considered,

In the second place, The mode of its operation.

It seems to be agreed when by anatometh, that the arteries populs left of the electric, and more of the muscular structure, as they records from the breat, and approach their terminations. And as throughout nature, window and dayon are apparent,

by necked , 1 h The o I me the o by uposed tuesas cap tion: and water debi and nature Gold has permed nought in view, the conclusion appears legitimate and investable, that this musualistify of the minute arteries is in the purpose of carrying on the blood, when it has reached a great a distance, or hume in obtained of the remissional as most to be under the propelling action of the heart and larger arteries, as sufficient dispose for the purposes of conclusions.

That debilety and relaxation follows, and are the energy must be application of a sternal of and are generally in the ratio of it do notion and well be as readed, encedit, as, that heat is thermelous. Hence it follows, that, when the system has been long express to an unusual stopic of heat, the utsureus expellences are whom only a some continuous and when the excellence into an induce actions and when the excellence we are induced actions and when the excellence is a some down, a murular debility ensure, which deferred them, in

to some rate at in ulax al larger and Julin, are we by this to in there & broloped . on there vises with in an

The same rates, of the power to perform their circu-- lating function. In this state of things, Their wats are relaxed and ongoged; whilst the heart and larger arteries, which, from their structure and situation, are not directly corposed to the debilitating cause, unge on the blood, by the vis a tergo, through the now inert entamous capellares. Now, the blood meeting with less resistance from the internal capillanes, which are exempt from the debilitating cause by their situation, an under quantity is poured into the abdominal viscora, producing a morbid condition in these organs and their secretions; and, according to concurrent circumstances, different diseases are developed. But, as the venous blood, returning from these visura through the vena portanens, paper to the liver, this organ is the greatest sufferer. An increased action is induced; and the bile is secreted in an undue quantity, and, probably, vitiated in quality, causing cholera, dysentery, or bilious

Win conse mufants the effect in propos pul or near remethent fover, accordingly as the disease may be medified by the condition of the alimentary canal, or sanguprous system, and other collaboral circumstance.

In expertise to the programs, I may be unjoined that the retings of the storm, sources for increased over you castlers, is evidence of an increased over you ration in the culariseus expellances. Ind. windly, that the debility induced by het weather, is universal, effecting the heart, no life than the musicies of becomition, and the musualer structure of the minute arteries.

In arrows to the just, it may be stated, that, in consequence of processes caretiment, the uppels are murposely relaxed and congested. If the redays be the effect of inversed action, the action must be in proportion to the relain, which is prejunity equal, or marky is to that of philograms, aspecially in the face. It would have follow, that there

as artires, stimed to a br. A the stmosph In the ented to in wide do must be inflamoration; a conclusion which no one would contend for.

to the second objection, it may be replied, that heat, as applied to the system, is relative. If a portion of air at 98° were thrown into the nettim, it would not produce a sensation of heat; and would be inactive, as regarded its temperature, that being the degree of healthy animal heat at the source of circulation. But if the skin be exposed to an atmosphere of the same degree, a sensation of heat would be produced, with consi detable increase of action in the minute cutaors -ous artines, in consequence of their being unaccustomed to so high a temperature in the atmosphone. It therefore seems to follow, that, unlife The atmosphere be above the temperature of the blood in the large arteries, these would not be excited to increased action, excepting through that wide dominion, which the skin, by it's

tiste the nery don topid, Ti saily in The mias duls, bon much con on and fa Then, the not be so various sympathies, exercises over the whole are .

Some practical application should be a primary object in medical enquiry. He who holds the winds in his fist, can alone mitigate the ardour of our summers: yet science may do much to ward off the effects. Let our buildings be so constructed, as to defend is equally from the sconding sun, and chilling blast. Let every domicil be provided with a bath, cool or tepid, that the cutaneous capillaries may be daily invigorated by its use during the sum mer heats. But, above all, we must shake off the social thraldom under which we labour in drefs, borrowed, for the most part, from a country much cooler than our own, and adopt one, in fashe on and fabric, suited to the ardour of our climate. Then, the black lettered catalogue of mortality would not be so often swelled by bilious disorders.